

EMERGING MATERIAL APPLICATIONS

RECENT MATERIAL APPLICATIONS

The building enclosure is always integrating new materials into its assemblies. Whether it be different variations of glass, other materials that provide opacity, or the layering of materials to create a brise soleil or a rain-screen, each material solution possesses a unique set of considerations for integration into a unitized building envelope system. In this brief section, an array of material strategies are presented that permitted the architectural design intent to be achieved while meeting performance requirements. To discover more about the use of these materials in the project applications covered, please visit the respective project page.

In this section we display a brief glance at eight material applications on recently completed, or soon to be completed projects around the country. The materials covered include:

Cast Aluminum

Milled Aluminum

Extruded Steel

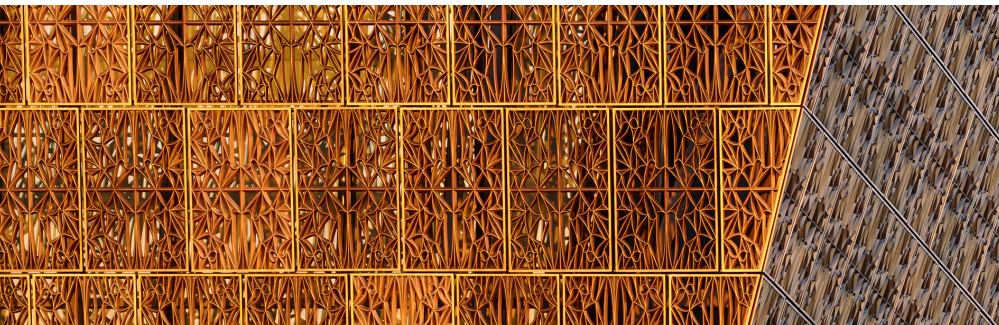
Stainless Steel

Fiber-Reinforced Polymers (FRP)

Ultra High-Performance Concrete (UHPC)

Terracotta Rain-screen

Channel Glass



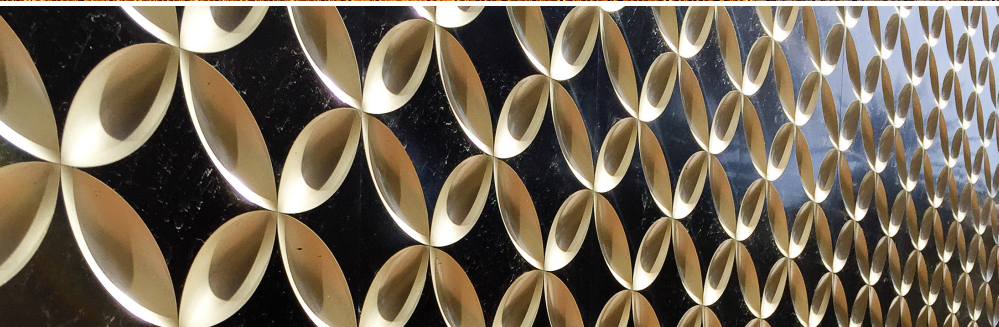
CAST ALUMINUM

Project:
National Museum of African American History and Culture (NMAAHC), Washington, D.C.

Architects: Freelon Adjaye Bond, Smith Group

Facade Consultant: Heintges & Associates

Material Source: ELEMENT



MILLED ALUMINUM

Project:
Louis Vuitton Fashion Island
Newport Beach, CA

Architect: Robinson Hill Architecture, Inc.

Material Source: Neil Feay Company



EXTRUDED STEEL

Project:
Columbia University: Jerome L. Greene Science Center
New York, NY

Architect: Renzo Piano Building Workshop

Facade Consultant: Israel Berger & Associates

Material Source: L. Sidervall SpA



STAINLESS STEEL

Project:
270 Brannan Street: Atrium Canopy
San Francisco, CA

Architect: Pfau Long Architecture

Material Source (Rods & Nodes): TriPyramid

Material Source (HSS and Pipes): TrussWorks International



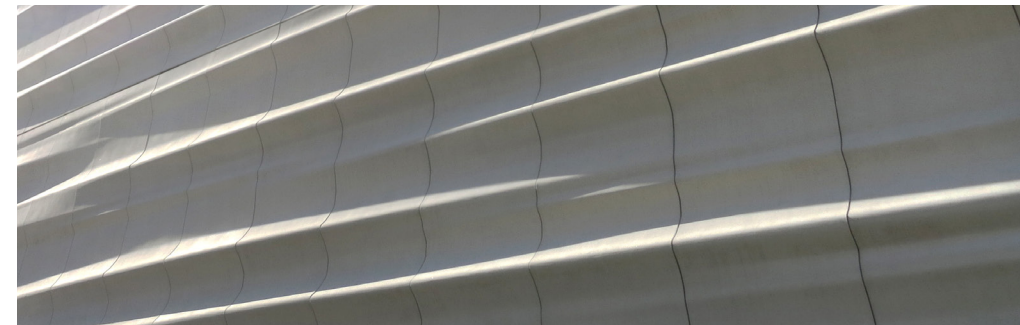
FIBERGLASS REINFORCED POLYMER (FRP)

Project:
San Francisco Museum of Modern Art

Architect: Snøhetta
EHDD Architecture

Facade Consultant: ARUP

Material Source: Kreysler & Associates



ULTRA HIGH PERFORMANCE CONCRETE (UHPC)

Project:
Helen L. and Martin S. Kimmel Pavilion
at New York University Langone Medical Center

Architect: Ennead Architects

Facade Consultant: Heintges & Associates



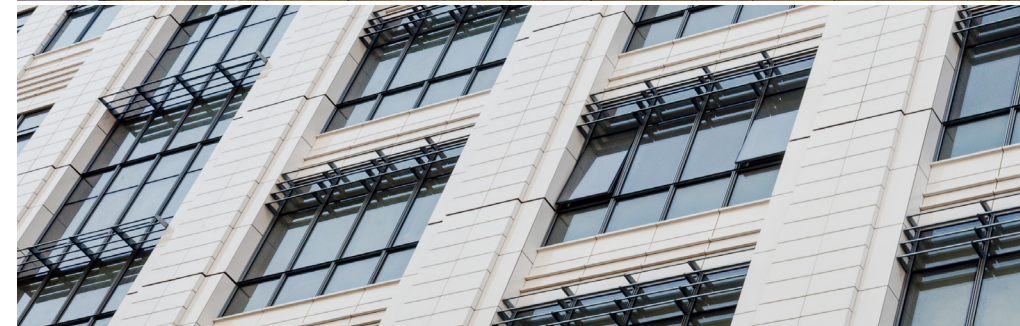
TERRACOTTA

Project:
CUNY LaGuardia Community College: Center 3 Building
Facade Retrofit, Long Island City, NY

Architect: Mitchell | Giurgola Architects

Facade Consultant: Heintges & Associates

Material Source: Shildan



CHANNEL GLASS

Project:
South Street Seaport: Pier 17, New York, NY

Architect:
SHoP Architects

Material Source:
Bendheim Architectural Glass
Glasfabrik Lamberts GmbH & Co. KG

